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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/884,274	06/19/2001	Toshifumi Oida	36856.517	1664

7590 07/05/2005
KEATING & BENNETT LLP
10400 Eaton Place, Suite 312
Fairfax, VA 22030

EXAMINER

KNOWLIN, THJUAN P

ART UNIT PAPER NUMBER

2642

DATE MAILED: 07/05/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/884,274

Applicant(s)

OIDA ET AL.

Examiner

Thjuan P. Knowlin

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 19 January 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-24 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-24 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 11 October 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

Response to Amendment

1. Applicant's amendment filed on January 19, 2005 has been entered. No claims have been amended. No claims have been cancelled. No claims have been added. Claims 1-24 are still pending in this application, with claims 1 and 11 being independent.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-24 are rejected under 35 U.S.C. 102(e) as being anticipated by Nakashima (US 6,526,270).
3. In regards to claims 1, 5, 6, 9, 11, 12, 15, 17, 21, and 22, Nakashima discloses an RF module (See Fig. 1) comprising: a multi-layered substrate (e.g. circuit board/portable telephone 50); a base-band IC (See Fig. 1 and base-band IC 2 and Fig. 5 and base-band IC 55), a memory IC (See Fig. 1, ROM 11, and RAM 10) and an RF-IC (See Fig. 1 and IrDA modulation/demodulation IC 3 and Fig. 1 and IrDA modulation/demodulation IC 58) mounted on said multi-layered substrate (See Fig. 5);

an RF passive component incorporated in said multi-layered substrate; and a wiring pattern incorporated in said multi-layered substrate, said wiring pattern interconnecting said base-band IC and said memory IC (See col. 4 lines 32-60).

4. In regards to claims 2, 10, 16, and 18, Nakashima discloses an RF module, further comprising an antenna incorporated in said multi-layered substrate (See Fig. 1 and transmission/reception circuit 6).

5. In regards to claim 3, 4, 8, 19, 20, and 24, Nakashima discloses an RF module, wherein at least one of said base-band IC, said memory IC, and said RF-IC is a bare-chip (See col. 4 lines 18-31).

6. In regards to claims 7 and 23, Nakashima discloses an RF module, further comprising at least one trimming electrode pattern (See Fig. 1 and control register 9/PLL {phase-locked loop} circuit 9) disposed on a surface of said multi-layered substrate and arranged to enable adjustment of frequency characteristics of the RF module (See col. 3 lines 53-67 and col. 4-5 lines 61-2).

7. In regards to claim 13, Nakashima discloses an RF module, wherein the plurality of electronic components include a base-band IC (See Fig. 1 and base-band IC 2 and Fig. 5 and base-band IC 55), a memory IC (See Fig. 1, ROM 11, and RAM 10), a quartz oscillator (See Fig. 1 and oscillation circuit 19), and surface-mounted components (See Fig. 1, Fig. 4, and Fig. 5).

8. In regards to claim 14, Nakashima discloses an RF module, wherein the surface mounted components includes at least one of a chip-type inductor, a chip-type

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capacitor, a chip resistor, a chip-type transistor, and a chip-type diode (See col. 7 lines 53-65).

Response to Arguments

9. Applicant's arguments with respect to claims 1-24 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

10. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Tomimuro et al (US 5,182,631) teach a film carrier for RF IC.

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thjuan P. Knowlin whose telephone number is (571) 272-7486. The examiner can normally be reached on Mon-Fri 8:30-5:00pm.

12. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ahmad Matar can be reached on (571) 272-7488. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

13. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should

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you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Thjuan P. Knowlin

A handwritten signature in black ink, appearing to read "Ahmad Matar". The signature is fluid and cursive, with the first name "Ahmad" and last name "Matar" clearly distinguishable.

AHMAD MATAR
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600